

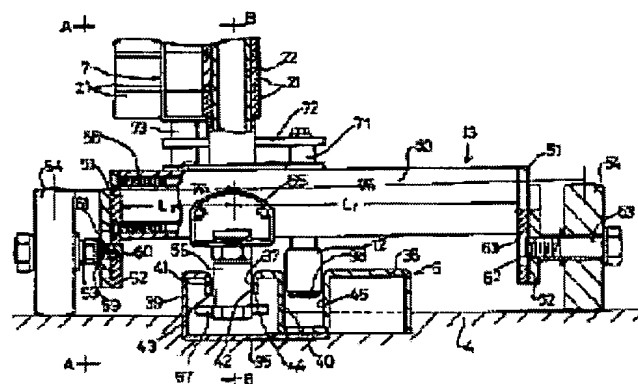
GROUND TRAVEL TYPE FOLDING DOOR

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Abstract of JP8177357

PURPOSE: To support a door body with a travel means independent of an effect due to door body moment, improve stability regardless of a door body size, and ensure a smooth and light open and close operation.
CONSTITUTION: A plurality of door sections 7 are laid in zigzag around a vertical axial center via hinge means 8 in such a state as freely foldable, thereby forming a door body. Also, the lower sections of every other means 8 are respectively provided with a travel means 13 moving along a guide rail 5 laid on the ground 4. Also, each door section 7 is folded in zigzag, so as to project from the guide rail 5 toward one side of the door body along a crossing direction about the hinge means having the travel means 13 as a support point at the time of folding the door body. Each of the travel means 13 is fitted with wheels 54 laid at both sides of the door body in a direction across the guide rail 5, and a gap W1 between the hinge means with the means 13 and the wheel 54 in a direction projected from the section 7 is made larger than a gap W2 between the hinge means and the wheel 54 at a position opposite to the projected direction. Furthermore, the center of gravity of the door body in a folded state is positioned nearer the guide rail 5 than the ground contact point of the wheel 54 at a position projected from the door body.



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